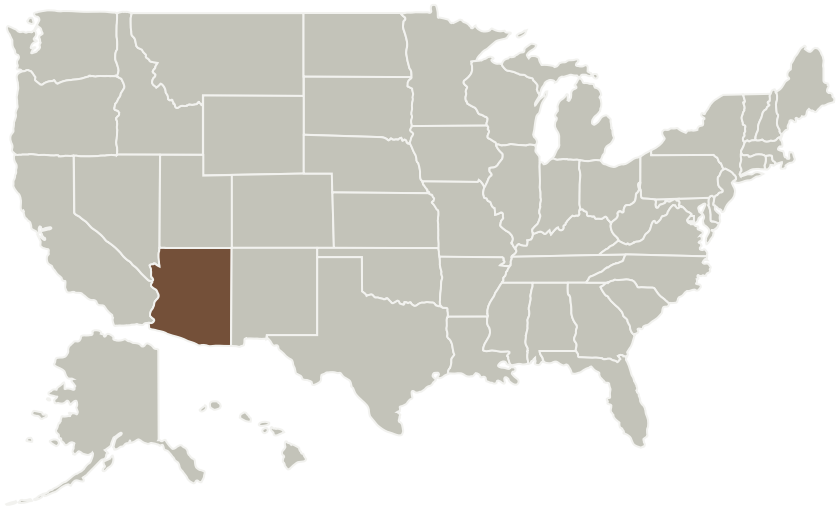
STO-2: Support for 4th Year Operations, Recovery, and Science ASU Co-I

Completed Technology Project (2017 - 2017)

Project Introduction

This is a Co-Investigator proposal for "STO-2: Support for 4th Year Operations, Recovery, and Science" with Prof. Christopher K. Walker (University of Arizona) as PI. As a participant in the STO-2 mission, ASU will participate in instrument design and construction, mission I&T, flight operations and data analysis. ASU has unique capabilities in the field of direct metal micromachining, which it will bring to bear on the STO-2 cold optical assembly, flight mixers and LO hardware. In addition, our extensive experience with receiver integration and test will supplement the capabilities of the PI institution during the I&T phase at the University of Arizona, CSBF (Palestine, TX) and in Antarctica. Both the ASU PI and student will also participate in data analysis and publication after the flight.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
Arizona State University-Tempe(ASU)	Supporting Organization	Academia Alaska Native and Native Hawaiian Serving Institutions (ANNH)	Tempe, Arizona

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Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate (SMD)

Responsible Program:

Astrophysics Research and Analysis

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Primary U.S. Work Locations

Arizona

Project Management

Program Director:

Michael A Garcia

Program Manager:

Dominic J Benford

Principal Investigator:

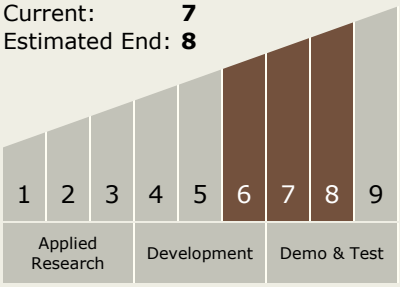
Christopher E Groppi

Co-Investigators:

Kristina K Davis
Sarah A Matheus

Technology Maturity (TRL)

Start: **6**
Current: **7**
Estimated End: **8**



Technology Areas

Primary:

- TX08 Sensors and Instruments
  - TX08.1 Remote Sensing Instruments/Sensors
    - TX08.1.5 Lasers

Target Destination

Outside the Solar System